UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,411	10/08/2003	Richard Redpath	RSW920030107US1	7411

46270 7590 12/09/2008

(SAUL-RSW) PATENT DOCKETING CLERK
IBM Corporation (SAUL-RSW) C/O Saul Ewing LLP
Penn National Insurance Tower
2 North Second Street, 7th Floor
Harrisburg, PA 17101

EXAMINER	
SHIN, KYUNG H	
ART UNIT	PAPER NUMBER
2443	

MAIL DATE	DELIVERY MODE
12/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/681,411	REDPATH, RICHARD	
	Examiner	Art Unit	
	Kyung Hye Shin	2443	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04 September 2008*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-18* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims **1 - 18** are pending. Claims **1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17** have been amended. Claims **1, 7, 13** are independent. This application was filed on **10-8-2003**.

2. The objection to the specification has been withdrawn due to amendments to the specification.

3. The 112 rejection has been withdrawn based on amendments to claims.

Response to Arguments

4. Applicant's arguments filed 9-4-2008 have been fully considered but are moot due to new grounds of rejection.

Applicant's invention discloses access to content over a network and locally using a web-server-proxy type device. The WOX entity has the functionality of both a web server and a proxy. (see Specification paragraph 009: "a **combination mirror/proxy** is provided on a remote (e.g., mobile) user device, to provide **access to essentially all web content** available from the central server, or a predetermined subset thereof, in an environment in which the device is disconnected from the central server, while also **providing a proxy for delivery (when connected) or storage (when disconnected) of requests** directed to the central server resource."

Claim Rejections - 35 USC § 103

The text of Title 35, U.S. Code not included in this action can be found in a prior Office action..

5. Claims **1 - 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Zhigang et al.** (US PGPUB No. **20050014489**) in view of **Islam et al.** (US PGPUB **20040001476**) and further in view of **Burns** (US PGPUB No. **20040019610**) and further in view of **Chen et al.** (US PGPUB No. **20030050062**).

Regarding Claims 1, 13, Zhigang discloses in a device that is connectable to a server via a network, a method for providing local access to content stored on the server, and a computer program product for interaction between devices and server resources via a network, the computer program product comprising a computer-readable storage medium having computer-readable program code embodied in the medium, comprising the steps of:

Zhigang discloses wherein providing the device with a combination web server and proxy (WOX) residing on the device, and the capability to operate as a web server and not a proxy (Zhigang para 014, ll 3-8; para 028, ll 5-9; para 031, ll 21-25: web server, web proxy; para 075, ll 5-9; para 076, ll 9-11: software, program product; para 074, ll 10-12: configuration can be single device; web based access and proxy functionality), and processing a HTTP GET request and a HTTP POST request (Zhigang para 044, ll 5-14; para 055, ll 4-7: HTTP POST, HTTP GET request processing). Zhigang does not explicitly disclose mirroring the server, and operating as a proxy when processing an HTTP POST request. The Specification in Paragraph 009 discloses: “operating as a proxy for delivery (when connected) or

storage (when disconnected) of requests".

However, Burns and Islam disclose:

a) mirroring the server; (Burns para 27, ll 8-10: mobile device; para 037, ll 9-12; para 088, ll 1-15: web based operations without network connections; para 051, ll 1-6: replication (mirroring) of local content to application service provider)

b) a proxy when processing an HTTP POST request. (Islam para 209, ll 6-8: web-based accessed when network disconnected; para 208, ll 1-9: POST request queued until network connection established; web based access and proxy functionality)

It would have been obvious to one of ordinary skill in the art to modify Zhigang to mirror the server as taught by Burns, and to operate as a proxy when processing a HTTP POST request as taught by Islam. One of ordinary skill in the art would have been motivated to employ the teachings of Burns in order to enables the user to select information content from a plurality of sources including such sources as third-party providers, private company intranets, and even the user's personal information content on the user's personal computer (Burns para 008, ll 1-6: *" … It is an object of the invention to provide a customizable information delivery system that enables the user to select information content from a plurality of sources including such sources as third-party providers, private company intranets, and even the user's personal information content on the user's personal computer. … "*), and to employ the teachings of Islam in order to enable the capability to … . (Islam para 007, ll 1-5: *" … Therefore, in the area of mobile application environments for*

mobile devices there continues to be a need for a more robust application environment that offers improved services to support interactive mobile applications with richer functionality. … ").

Zhigang does not explicitly disclose a residing on a remote device. However, Chen discloses wherein residing on a remote device. (Chen para 027, ll 14-18: mobile service platform functionality can be integrated into a **single device** (residing on a device); para 031, ll 1-22: mobile service platform can include a proxy server; iProxy agent can include a web-server)

It would have been obvious to one of ordinary skill in the art to modify Zhigang for residing on a remote device as taught by Chen. One of ordinary skill in the art would have been motivated to employ the teachings of Chen in order to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths. (Chen para 011, ll 1-4: " … *It would, therefore, be desirable to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths. … "*)

Regarding Claims 2, 8, 14, Zhigang discloses the method, system, computer program product of claims 1, 7, 13. (Zhigang para 014, ll 3-8; para 028, ll 5-9; para 031, ll 21-25: web server, web proxy)

Zhigang does not explicitly disclose a mirroring at least a subset of content.

However, Burns discloses:

a) mirroring at least a subset of the content stored on the server; (Burns para 27, ll 8-10: mobile device; para 037, ll 9-12; para 088, ll 1-15: web based operations without network connections; para 051, ll 1-6: replication (mirroring) of local content to application service provider (server))

Zhigang discloses delivering HTTP GET requests from the WOX. (Zhigang para 055, ll 4-7: process HTTP GET request; para 054, ll 1-6: process HTTP requests) Zhigang does not explicitly disclose HTTP GET requests when device is disconnected.

However, Islam discloses:

b) delivering HTTP GET requests when the device is disconnected from the network. (Islam para 209, ll 6-8: web-based accessed when network disconnected; para 208, ll 1-9: messaging (POST requests) queued until network connection reestablished)

It would have been obvious to one of ordinary skill in the art to modify Zhigang to mirror a subset of content as taught by Burns, and operate as a proxy when processing an HTTP POST request as taught by Islam. One of ordinary skill in the art would have been motivated to employ the teachings of Burns in order to enables the user to select information content from a plurality of sources including such sources as third-party providers, private company intranets, and even the user's personal information content on the user's personal computer (Burns para 008, ll 1-6), and to employ the teachings of Islam in order to satisfy the need for a more

robust application environment offering improved services to support interactive mobile applications with richer functionality (Islam para 007, ll 1-5).

Zhigang does not explicitly disclose a residing on a remote device. However, Chen discloses wherein residing on a remote device. (Chen para 027, ll 14-18: mobile service platform functionality can be integrated into a single device; para 031, ll 1-22: mobile service platform can include a proxy server; iProxy agent can include a web-server)

It would have been obvious to one of ordinary skill in the art to modify Zhigang for residing on a remote device as taught by Chen. One of ordinary skill in the art would have been motivated to employ the teachings of Chen in order to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths. (Chen para 011, ll 1-4)

Regarding Claims 3, 9, 15, Zhigang discloses the method, system, computer program product of claims 2, 8, 14, whereby the content is stored on the server, WOX. (Zhigang para 012, ll 5-7: content on web server) Zhigang does not explicitly disclose a copy of all of the content stored on the server is mirrored. However, Burns discloses wherein a copy of all of the content stored on the server is mirrored. (Burns para 27, ll 8-10: mobile device; para 037, ll 9-12; para 088, ll 1-15: web based operations without network connections; para 051, ll 1-6: replication (mirroring) of local content onto server; all local content placed onto server system)

It would have been obvious to one of ordinary skill in the art to modify Zhigang where a copy of all of the content stored on the server is mirrored as taught by Burns. One of ordinary skill in the art would have been motivated to employ the teachings of Burns in order to enables the user to select information content from a plurality of sources including such sources as third-party providers, private company intranets, and even the user's personal information content on the user's personal computer. (Burns para 008, ll 1-6)

Regarding Claims 4, 10, 16, Zhigang discloses the method, system, computer program product of claims 1, 7, 13, further comprising the steps of: determining the connected/disconnected state of the device to the network;

a) wherein when the device is connected to the network, and an HTTP POST request is submitted to the WOX, the WOX delivers the HTTP POST request to the server; (Zhigang para 044, ll 5-14: HTTP POST command processed; para 014, ll 3-8; para 028, ll 5-9; para 031, ll 21-25; web proxy, web server)

Zhigang discloses wherein the WOX server and a HTTP POST request are submitted. (Zhigang para 044, ll 5-14: HTTP POST command processed) Zhigang does not explicitly disclose storing the HTTP POST request for later delivery. However, Islam discloses:

b) when the device is disconnected from the network, stores the HTTP POST request for later delivery. (Islam para 209, ll 6-8: web-based accessed when network disconnected; para 208, ll 1-9: POST request queued until network

connection established)

It would have been obvious to one of ordinary skill in the art to modify Zhigang to store the HTTP POST request for later delivery as taught by Islam. One of ordinary skill in the art would have been motivated to employ the teachings of Islam in order to satisfy the need for a more robust application environment offering improved services to support interactive mobile applications with richer functionality. (Islam para 007, ll 1-5)

Zhigang does not explicitly disclose a residing on a remote device. However, Chen discloses wherein residing on a remote device. (Chen para 027, ll 14-18: mobile service platform functionality can be integrated into a single device; para 031, ll 1-22: mobile service platform can include a proxy server; iProxy agent can include a web-server)

It would have been obvious to one of ordinary skill in the art to modify Zhigang for residing on a remote device as taught by Chen. One of ordinary skill in the art would have been motivated to employ the teachings of Chen in order to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths. (Chen para 011, ll 1-4)

Regarding Claims 5, 11, 17, Zhigang discloses the method, system, computer program product of claims 4, 10, 16, and HTTP POST requests are delivered to the server. (Zhigang para 044, ll 5-14: HTTP POST request processing) Zhigang does not

explicitly disclose that the stored HTTP POST requests are delivered when the device next connects to the network. However, Islam discloses the stored HTTP POST requests are delivered to the server when the device next connects to the network. (Islam para 209, ll 6-8: web-based accessed when network disconnected; para 208, ll 1-9: POST request queued until network connection established)

It would have been obvious to one of ordinary skill in the art to modify Zhigang where the stored HTTP POST requests are delivered when the device next connects to the network as taught by Islam. One of ordinary skill in the art would have been motivated to employ the teachings of Islam in order to satisfy the need for a more robust application environment offering improved services to support interactive mobile applications with richer functionality. (Islam para 007, ll 1-5)

Zhigang does not explicitly disclose a residing on a remote device. However, Chen discloses wherein residing on a remote device. (Chen para 027, ll 14-18: mobile service platform functionality can be integrated into a single device; para 031, ll 1-22: mobile service platform can include a proxy server; iProxy agent can include a web-server)

It would have been obvious to one of ordinary skill in the art to modify Zhigang for residing on a remote device as taught by Chen. One of ordinary skill in the art would have been motivated to employ the teachings of Chen in order to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths.

(Chen para 011, ll 1-4)

Regarding Claims 6, 12, 18, Zhigang discloses the method, system, computer program product of claims 4, 10, 16, whereby the HTTP POST requests and HTTP GET requests comprise requests in HTTPS format. (Zhigang para 036, ll 15-22: secure communications protocol utilized (i.e. SSL, HTTPS))

Regarding Claims 7, Zhigang discloses a system for interaction between devices and server resources via a network, the system comprising:

a) a device configured with a combination web server and proxy (WOX) residing on the device; (Zhigang para 014, ll 3-8; para 028, ll 5-9; para 031, ll 21-25: web server, web proxy capabilities; para 074, ll 10-12: configuration can be single device) and

b) a server connectable to the device; (Zhigang para 031, ll 21-25: web server: web server connectable to device)

Zhigang discloses wherein the WOX operates as a web server (Zhigang para 014, ll 3-8; para 028, ll 5-9; para 031, ll 21-25: web server, web proxy), and processing an HTTP GET request and processing an HTTP POST request. (Zhigang para 044, ll 5-14; para 055, ll 4-7: HTTP POST and HTTP GET processing) Zhigang does not explicitly disclose whereby configured to mirror the server, and operate as a proxy when processing an HTTP POST request.

However, Burns and Islam disclose:

c) configured to mirror the server (Burns para 27, ll 8-10: mobile device; para 037, ll 9-12; para 088, ll 1-15: web based operations without network connections; para 051, ll 1-6: replication (mirroring) of local content to application service provider), and operates as a proxy when processing an HTTP POST request (Islam para 209, ll 6-8: web-based accessed when network disconnected; para 208, ll 1-9: POST request queued until network connection established; web based access and proxy functionality)

It would have been obvious to one of ordinary skill in the art to modify Zhigang to mirror the server as taught by Burns, and to operate as a proxy when processing an HTTP POST request as taught by Islam. One of ordinary skill in the art would have been motivated to employ the teachings of Burns in order to enables the user to select information content from a plurality of sources including such sources as third-party providers, private company intranets, and even the user's personal information content on the user's personal computer (Burns para 008, ll 1-6), and to employ the teachings of Islam in order to satisfy the need for a more robust application environment offering improved services to support interactive mobile applications with richer functionality. (Islam para 007, ll 1-5)

Zhigang does not explicitly disclose a residing on a remote device. However, Chen discloses wherein residing on a remote device. (Chen para 027, ll 14-18: mobile service platform functionality can be integrated into a single device; para 031, ll 1-22: mobile service platform can include a proxy server; iProxy agent can include a web-server)

It would have been obvious to one of ordinary skill in the art to modify Zhigang for residing on a remote device as taught by Chen. One of ordinary skill in the art would have been motivated to employ the teachings of Chen in order to provide personal multimedia services delivered over a wireless communication channel to a variety of mobile device types while minimizing congestion of the control and request paths. (Chen para 011, ll 1-4)

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung Hye Shin whose telephone number is (571) 272-3920. The examiner can normally be reached on 9:30 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia L. Dollinger can be reached on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kyung Hye Shin
Examiner
Art Unit 2443

/PHUOC NGUYEN/

Primary Examiner, Art Unit 2443